LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES



OFFICE OF FISHERIES INLAND FISHERIES SECTION

2018 AQUATIC VEGETATION MANAGEMENT PLAN

LAKE PEIGNEUR

Lake Peigneur

Lake Peigneur is a 1,125 acre lake located approximately 1.2 miles north of Delcambre, Louisiana in Iberia Parish south of Lafayette, Louisiana. It is 9 miles north of the Intracoastal Waterway and 11.7 miles by water through the Delcambre Canal, Bayou Carlin, Bayou Petit Anse and the Avery Canal to Vermillion Bay, Gulf of Mexico.

In November of 1980, an oil drilling rig mistakenly drilled into the Jefferson Island salt mine, a working mine at the time. The mine collapsed as water eroded the salt and emptied the water from the lake as it filled the cavities in the mine. The resulting hole is reported to be approximately 200 feet deep. Water from the Delcambre Canal flowed into the mine from the Gulf of Mexico for four days filling the salt mine and eventually refilling the lake.

Water body Information

Waterbody Type:

Natural waterbody influenced by Delcambre canal near hwy 14 in Abbeville, La.

Parish/Location:

Iberia Parish, LA

Size (surface acres):

1.125 acres

Watershed:

10.2 square miles

Ownership:

State of Louisiana owns the water bottoms and the Louisiana Department of Wildlife & Fisheries manages the fish and wildlife resources.

Pool stage:

3 ft. (not including the crater at the collapsed salt mine), tidally influenced

Border waters:

Delcambre Canal

Past Control Measures:

No herbicide applications have been conducted on Lake Peigneur. The lake receives fresh water from the north and saltwater intrusion from the south. The lake level is greatly influenced by both lunar tides and wind. Incoming and outgoing tides in the Delcambre canal below Highway 14 in Delcambre at times provide the appearance of a flowing river.

Aquatic Vegetation Status:

During a site visit on October 5, 2016, very small amounts of water hyacinth (*Eichhornia crassipes*) were observed on the northeast shoreline, and no salvinia (Salvinia spp.) was present. The tide was not flowing on this day. No submersed plants were present.

During a site visit on September 9th, 2017 the only vegetation present was very small amounts of water hyacinth on the north shoreline. No submersed plants were present.

Recommendations for 2018:

- 1. Site visits to conduct surveys for nuisance aquatic plants will be conducted in the summer/fall in 2018.
- 2. Herbicide applications will be conducted to facilitate public access in accordance with the LDWF Aquatic Herbicide Application Standard Operating Procedures. To control water hyacinth, 2,4-D will be applied at a rate of 0.5 gallons per acre with a non-ionic surfactant (1 pint/acre). A diquat (0.25 gal/acre) and glyphosate (0.75 gal/acre) mixture with Turbulence (0.25 gal/acre) surfactant will be used to control common and giant salvinia from April 1 to October 31 if necessary. Diquat (0.75 gal/acre) and a non-ionic surfactant will be used to control these plant species from November 1 to March 31 if necessary.

Map of Lake Peigneur



Lake Photos





